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ABSTRACT

LOW DISPERSION INTERLEAVER

An apparatus for channel interleaving comprises a spatial birefringent element assembly and a reflector which is configured so as to direct light from the spatial birefringent element assembly back through the spatial birefringent element assembly. The spatial birefringent element assembly comprises at least one spatial birefringent element. Directing light from the spatial birefringent element assembly back through the spatial birefringent element assembly substantially mitigates cross-talk and/or dispersion of the apparatus for channel interleaving in communications.